

液晶显示模组规格书

LCD MODULE SPECIFICATION

MODEL NO(模组型号):

YC-177CN2017W00-80A00-A00

客户名称:					
拟制 DESIGNED	审核 CHECKED	批准 APPROVED	拟制 DESIGNED	审核 CHECKED	批准 APPROVED



ISO9001:2008 版
质量体系认证



1. 产品特征 Product Features

项目 (Item)	描述(Description)
(1) 显示类型 (Display Type)	1.77 inch TFT Normally white
(2) 分辨率 (Resolution)	128*RGB*160
(3) 显示色彩 (color)	65K/262K
(4) 视角 (View Angle)	12 O'CLOCK
(5) 驱动IC (Driver IC)	NV3021C
(6) 接口类型 (Interface Types)	MCU_8 Bit
(7) 背光模式 (Backlight)	并联 2 颗灯
(8) 触摸屏 (Touch Panel)	无

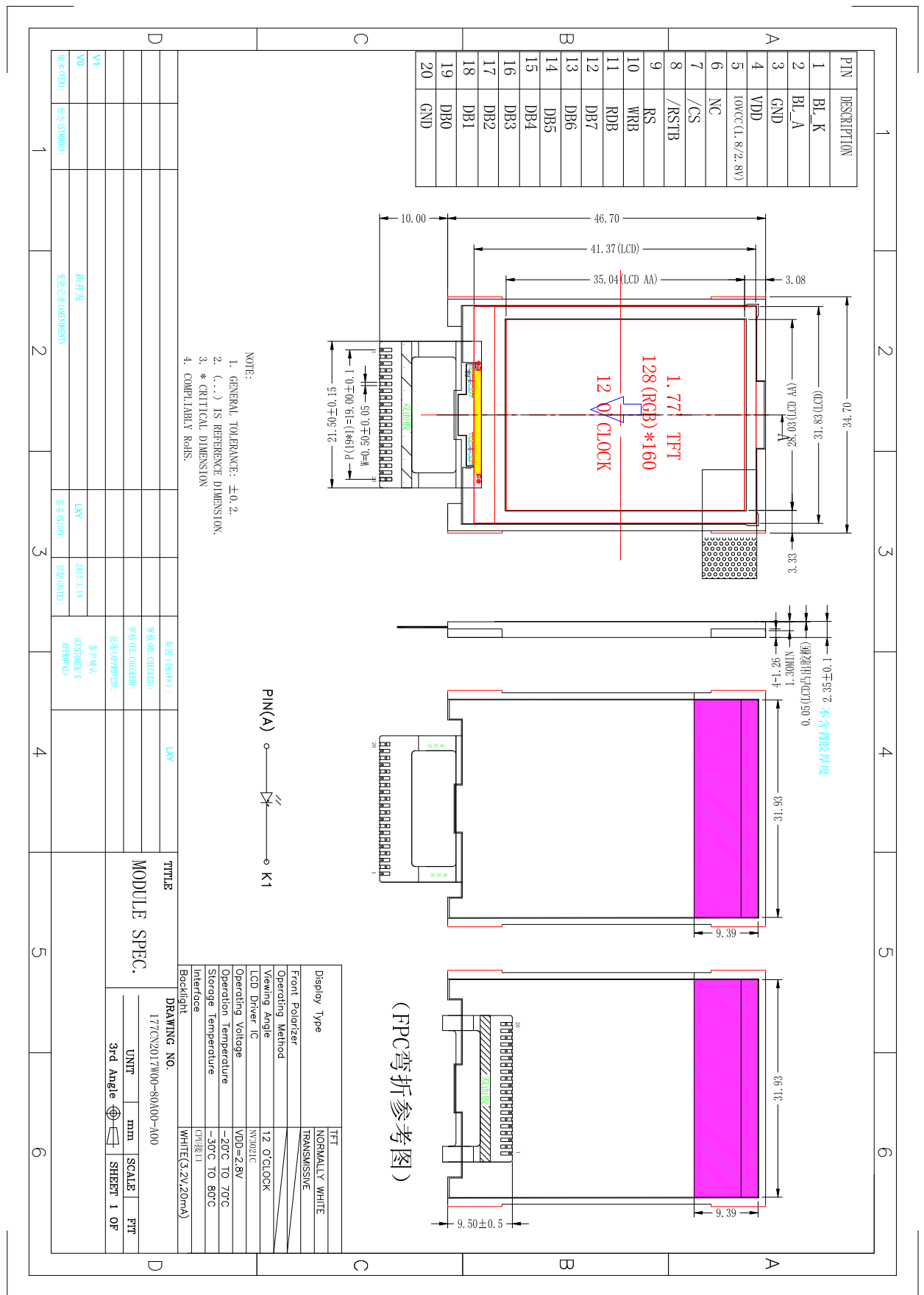
2. 物理规格 Physical Specifications

项目 (Item)	规格 (Specification)	单位 (Units)
(1) 外形尺寸(Outline Dimension)	34.70*46.70*2.35	mm
(2) 显示区尺寸(Active Area Dimension)	28.03*35.04	mm
(3) 解析度(Resolution Dimension)	128*RGB*160	/
(4) 像素点尺寸(Pixel Pitch Dimension)	0.073*0.219	mm
(5) 结构类型(Structure Type)	COG+FPC+BL (note)	/

Note: COG: Chip On Glass (LCD+IC); BL: Backlight; TP: Touch Panel

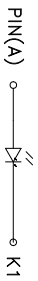
3. 产品图纸 Product Drawings

(见下页)



PIN	DESCRIPTION
1	BL_K
2	BL_A
3	GND
4	VDD
5	10VCC(1.8/2.8V)
6	NC
7	/CS
8	/RSTB
9	RS
10	WRB
11	RDB
12	DB7
13	DB6
14	DB5
15	DB4
16	DB3
17	DB2
18	DB1
19	DB0
20	GND

NOTE:
 1. GENERAL TOLERANCE: ±0.2.
 2. (. . .) IS REFERENCE DIMENSION.
 3. * CRITICAL DIMENSION
 4. COMPLIABLE RAIS.



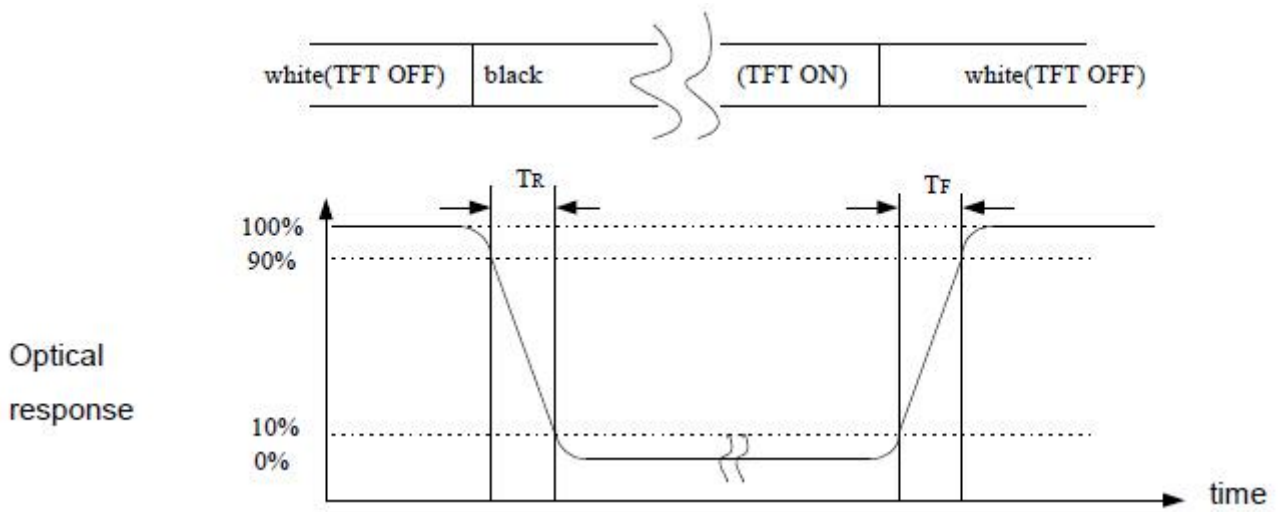
Display Type	TFT
Front Polarizer	NORMALLY WHITE
Operating Method	TRANSMISSIVE
Viewing Angle	
LCD Driver IC	NR3021C
Operating Voltage	VDD=2.8V
Operation Temperature	-20°C TO 70°C
Storage Temperature	-30°C TO 80°C
Interface	CPU接口
Backlight	WHITE(3.ZV,Z0H-A)

UNIT	mm	SCALE	FIG
3rd Angle		SHEET 1 OF	

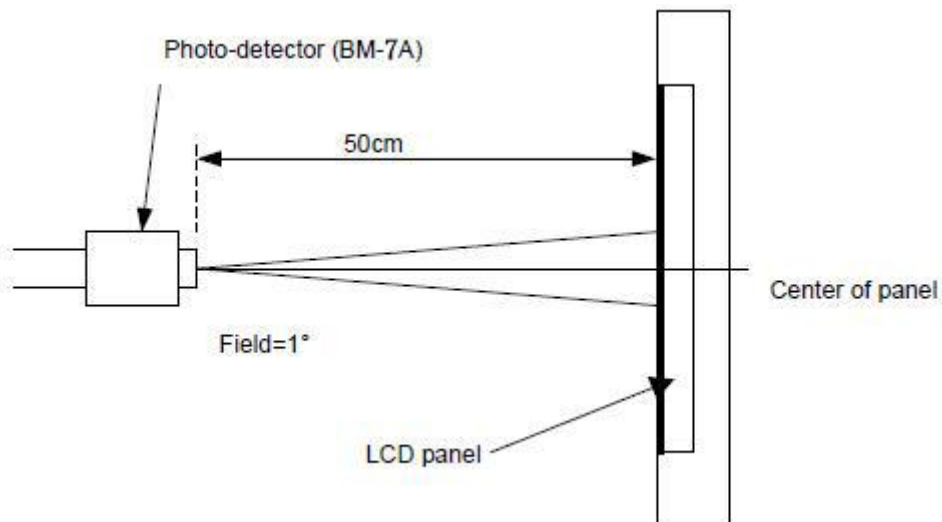
Note 2: 对比度定义 Definition of contrast ratio CR:

$$CR = \frac{\text{Brightness of non-selected dots (white)}}{\text{Brightness of selected dots (black)}}$$

Note 3: 响应时间的定义 Definition of response time (T_R, T_F)



Note 4: 光学测量装置的定义 Definition of optical measurement setup



9.2 可靠性实验 Reliability Test

项目 ITEM	条件 Condition	样品数量 Sample size	标准 Criterion
高温储存 High Temp. Storage	+80°C ± 2°C, 120 小时 hrs	5pcs	检查后2~4小时存储在室温下， 该样品应无缺陷： 1. 液晶显示器无气泡； 2. 液晶无漏液； 3. 显示正常； 4. 不缺少部件； 5. 表面应无损伤； 6. 线性度测试仪检测对比度必须 不超过10%。 7. 线性度测试仪检测电源不超过 10%。 Inspection after 2~4hours storage at room temperature, the sample shall be free from defects: 1.Air bubble in the LCD; 2.Sealleak; 3.Non-display; 4.Missing segments; 5. The surface shall be free from damage. 6. Contrast must be no more than 10% by the linearity tester. 7. Power must be no more than 10% by the linearity tester.
低温储存 Low Temp. Storage	-30°C ± 2°C, 120 小时 hrs	5pcs	
高温运行 High Temp. Operation	+70°C ± 2°C, 72 小时 hrs	5pcs	
低温运行 Low Temp. Operation	-20°C ± 2°C, 72 小时 hrs	5pcs	
湿度运行 Humidity operation	40°C, 90%RH, 72 小时 hrs	5pcs	
湿度储存 Humidity storage	70°C, 90%RH, 72 小时 hrs	5pcs	
温湿度循环 Temp humidity cycles	25°C → Calefaction/3hrs → 60°C/9hrs → Descend temp/3hrs 25°C/9hrs → 90%RH Total:10 cycles	5pcs	
冷热冲击循环 Thermal shock	-30°C/30min → 80°C/30mins Total:10 cycles	5pcs	
震动 Vibration	Amplitude between 10 and 150Hz: 3G(100m/s ²)/2hrs for each direction(X,Y,Z)	1Carton-box	经过测试，没有任何有缺陷的表 现或电气性能。After testing, there are no any defective appearances or electrical properties.
跌落测试 Drop test	1.5m, 10times	1Carton-box	
静电测试 ESD	1.Contact discharge method ± 6KV, 150pF/330Ω 10times	5pcs	1. 经过测试，没有任何有缺陷的 表现或电气性能。 2. 在可以接受时，所有有缺陷的 现象在ESD复位后消失。 1. After testing, there are no any defective appearances or electrical properties. 2. It can be acceptable when all defective ESD disappears in the RESET.
	2.Air discharge method ± 8KV, 150pF/330Ω 10times	5pcs	